

ABSTRACT

An endoluminal stent device, system, and method enabling localized detection and treatment of adverse stent-related conditions. Embodiments of the present invention may enable monitoring of endoluminal pressure in the region of an aneurism, and/or compliance in the neck region of a stent device. Other embodiments of the present invention may provide systems and methods for treating a variety of aneurism conditions, by externally activating at least one expansion mechanism associated with the stent device at a desired future time after an initial stent placement procedure.